

CLAIMS

What is claimed is:

- Sub A1
1. An optical disc changer comprising:
a main body;
a tray slidably installed in the main body;
a roulette rotatably installed at the tray to accommodate a plurality of optical discs ;
an optical pickup device to selectively reproduce one of the optical discs accommodated on the roulette; and
a damping unit to absorb shock when the tray is loaded in and unloaded from the main body to prevent defective reproduction of the one optical disc .
 2. The optical disc changer according to claim 1, wherein:
the tray comprises a plurality of stop members to stop the tray at unloaded and loaded positions; and
the damping unit comprises:
a plate extended from one side of a through hole formed at the main body, and a damper provided on the plate to absorb shock when the tray bumps against each of the stop members.
 3. The optical disc changer as claimed in claim 2, wherein the damper is disposed between the stop members.
 4. The optical disc changer as claimed in claim 2, wherein the damping unit further comprises a hooking protrusion to prevent the tray from escaping from the main body.
 5. The optical disc changer as claimed in claim 4, wherein the damper is disposed to bump against the stop member prior to the hooking protrusion when the tray is unloaded.

10029984-123101

6. The optical disc changer as claimed in claim 2, wherein the damper is formed of a rubber.

7. The optical disc changer according to claim 2, wherein said stop members are formed integrally with said tray.

8. The optical disc changer according to claim 2, wherein said stop members are arranged at the same interval on said tray as a distance said tray moves between the unloaded and load positions loaded or unloaded.

9. The optical disc changer according to claim 2, wherein said plate is formed of an elastic material.

10. The optical disc changer according to claim 2, further comprising a hooking protrusion formed on said plate such that when the tray is being loaded or unloaded said stop members contact said damper before contacting said hooking member.

11. The optical disc changer according to claim 1, wherein said damping unit is away from the edges of said tray when said tray is in the loaded or unloaded positions.

12. The optical disc changer according to claim 1, wherein said damping unit is underneath said tray.

13. The optical disc changer according to claim 1, wherein said damping unit is formed on two opposite sides of said main body.

14. An optical disc reproduction apparatus to reproduce data from an optical disc, comprising:

- a main body;
- a tray slidably installed in the main body;
- an optical pickup device to reproduce data on said optical disc; and
- a damping unit to absorb shock when the tray is loaded and unloaded from the main body.

15. The optical disc reproduction apparatus according to claim 9, wherein said damping unit absorbs shock during reproduction of the data on the optical disc.

Sub AI
Canc.

Add AI

10029984 123101